

## Stream Location and Conditions

(use a new data sheet for each stream section surveyed)

### Module 1

Stream Name/Nearest Town: <i>STONEY CREEK - Burnaby</i>		Date: <i>MARCH 3/09</i>
Organization Name: <i>AQUATEC RESOURCES</i>		Watershed code <i>100-054300-56600</i>
Contact Name: <i>SCOTT DUCHARME</i>		Phone # <i>604-690-1474</i>
Crew Names: <i>TRIBULT DOIX</i>		Stream Segment #
		Stream Section # <i>3</i>
		Length Surveyed

#### Survey Start Point (when applicable)

Mapsheets number	Type	Scale
Start Point Location (distance from known stream landmark, directions to start) <i>upstream side of Beaver Brook Place Bridge crossing.</i>		
Time: <i>9:30</i>	Weather	<input type="checkbox"/> clear <input checked="" type="checkbox"/> shower (1-2.5 cm in 24 hr) <input type="checkbox"/> snow <input type="checkbox"/> overcast <input type="checkbox"/> storm (>2.5 cm in 24 hr) <input type="checkbox"/> rain on snow
Water turbidity (cm visibility) <i>25cm / 10cm (after rain)</i>	Temperature °C (leave thermometer 2 min.) air <i>7°</i> water <i>5.5°C</i>	
Measurements taken every <i>1.0</i> m		
Bankfull Channel width <i>5.2</i> (m)	Average depth <i>0.75</i> (m)	
Wetted Channel width <i>4.3</i> (m)	Average depth <i>.43</i> (m)	

#### Survey End Point (when applicable)

Mapsheets number	Type	Scale
End Point Location (distance from known stream landmark) <i>10m upstream of Stoney Creek Place Bridge Crossing.</i>		
Time: <i>3:00</i>	Weather	<input type="checkbox"/> clear <input checked="" type="checkbox"/> shower (1-2.5 cm in 24 hr) <input type="checkbox"/> snow <input checked="" type="checkbox"/> overcast <input type="checkbox"/> storm (>2.5 cm in 24 hr) <input type="checkbox"/> rain on snow
Water turbidity (cm visibility) <i>17 cm</i>	Temperature °C (leave thermometer 2 min.) air <i>7°</i> water <i>5.5°</i>	
Measurements taken every <i>0.5</i> m		
Bankfull Channel width <i>4.6</i> (m)	Average depth <i>0.68</i> (m)	
Wetted Channel width <i>3.7</i> (m)	Average depth <i>0.32</i> (m)	

(Start Point)

First and Last Measurements taken 0.1 m from streambank edge

(End Point)

Left Bank	m	.10	.21	3.0		2.0	1.2	.5	Right Bank
Wetted Depth	cm	36	57	34		24	45	27	Wetted Depth
Bankfull Depth	m	.70	.40	.50		1.10	.95	.9	Bankfull Depth

Left Bank	m	.10	.6	1.2		1.0	.6	.10	Right Bank
Wetted Depth	cm	20	37	15		19	39	44	Wetted Depth
Bankfull Depth	m	.80	.40	.60		.60	.70	.80	Bankfull Depth

Take measurements every 0.5m in streams less than 5m wide, every 1m in streams 5 to 15m

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Introductory Stream Habitat Survey  
revision - March 2000

Streamkeepers Module 1

# Stream Reconnaissance Field Data Sheet

## Feature Information con't

## Module 1

Feature #	Photo #	m upstream of last feature	Feature Description and Size (see App. 3)	Stream-bank (L or R)	Adjacent Land Use *	Actions/Comments/ Water Quality Concerns
62 46	2	4m	START Pt SECTION 3. - upstream side of Beaverbrook PL, Bridge crossing.	—	—	—
63 46	1	5m	Bank Erosion - sloughing. ↓ 3.4m x 3m ↔	L	—	Stable AT present flow. * need to monitor.
64 47	3 4 5 6	15m	Drainage / Discharge. - H <sub>2</sub> O = 6.5°C * NEED'S Maintenance & Enhancement!	L	—	- Bank Erosion * WATER Quality issues from storm water. BF = 4.4m outfall LL = 5m WW = 1.3m
65 48	7 8	27m	Bank Erosion ↓ 3m x 11.5m ↔	L	U	- Slumping Bank. - stable AT present flow.
66 49	9	27m	Bank Erosion ↓ 1.62m x 17m ↔	R	U	- Lacking Riparian Vegetation. - observe 1 salmon skeleton.

\* Adjacent Land Use Codes: Undisturbed, Agriculture, Forestry, Residential, Parks, Commercial, Industrial

General comments on this section of the stream

# Stream Reconnaissance Field Data Sheet

## Feature Information con't

## Module 1

Feature #	Photo #	m upstream of last feature	Feature Description and Size (see App. 3)	Stream-bank (L or R)	Adjacent Land Use *	Actions/Comments/ Water Quality Concerns
67.	10	35m	BANK Erosion ↑ 1.62m x 17m	R	u	stable with roots.
68.	11	43m	Tributary BF = 70cm ww = 40cm wd = 2cm length = > 10m.	L	P	- Flowing clear. - outfall height = 25cm. - H <sub>2</sub> O = 8°C - lower jaw of chum observed.
69	12 13	32m	TRIBUTARY BF = 3.6m ww = 1.10m wd = 20cm	R	P	- H <sub>2</sub> O = 6°C - minimal erosion on right bank.
70.	14	12m	TRIBUTARY BF = 1.65m ww = 0.68m wd avg = 12cm.	L	P	- Flowing - H <sub>2</sub> O = 6.5°C
71.	15.	10m	"BENCHMARK" Pedestrian Bridge Crossing ↓ 1.5m x 9.3m length = 1.8m	R-L	P	- Stony Creek Park trail Access.

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General comments on this section of the stream

SECT # 3.

# Stream Reconnaissance Field Data Sheet

## Feature Information con't

## Module 1

Feature #	Photo #	m upstream of last feature	Feature Description and Size (see App. 3)	Stream-bank (L or R)	Adjacent Land Use *	Actions/Comments/ Water Quality Concerns
72. 55	16 17	40m	BANK Erosion - undercut/slump ↓ 1.23m x 14m	R	P	- garbage in Area, rip's clean up. - stable
73. 56	18 19	58m	BANK Erosion "Slumping"/ <sup>top</sup> slump ↑ 2.2m x 7m ←	L	P	- Exposed till AND clay.
74. 57	20	64m	Woody Debris JAM	Instream	P	- Potential Barrier to adults. - camp on top of left BANK.
75. 58	21 22	7m	BANK Erosion "top SLIDING" - ↓ 1.6m x 3.9m ←	L	U	- observe 1 salmon jaw bone.
76. 59	23	33m	Tributary length = < 10 m BF = 90cm ww = 30cm wd = 0.3m	R L	P U	- Flowing but murky. - Drainage from Sports FIELD. - H <sub>2</sub> O = 5.5°C

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77. w0	24 25	17m	TRIBUTARY BF = 1.35m lw = 0.46m wd = 0.07m H2O =	R	U	Flowing clear - AVAILABLE HABITAT. - H2O = 4.8°C
78 w1	26 27 28 29	53m	* MAJOR BANK Erosion - "SLIPING" Height - 2.5m to 4.6m length = 28m	L		- Located under Power Lines.
79. w2	N/A	93m	Culvert Discharge DIA = 20cm out FALL = 60cm	L	P	- Flowing clear - H2O = 7.5°C TRAIL Drainage
80. w3	31	137m	Instream Pipe Line crossing - "oil"	Instream		- Below substrate minimal impact.
81. w4	32	18m	Culvert Discharge DIA = 30cm	L		- Flowing AND clear - H2O = 7.5°C
* Adjacent Land Use Codes: Undisturbed, Agriculture, Forestry, Residential, Parks, Commercial, Industrial						

General comments on this section of the stream

SECT # 3

# Stream Reconnaissance Field Data Sheet

## Feature Information con't

## Module 1

Feature #	Photo #	m upstream of last feature	Feature Description and Size (see App. 3)	Stream-bank (L or R)	Adjacent Land Use *	Actions/Comments/ Water Quality Concerns
82. 65	33	23m	Pedestrian Bridge Crossing. ↑ 1.4m x 10.3m ↔ " BENCHMARK "	R-L	TRAIL	TRAIL - Access AT Lyndhurst AND NOEL DR. - Stoney CREEK Environment Committee INFO Booth, MAP etc.
83. 66	34 35	184m	Artificial Modification BANK STABILIZATION Rep Rep - Avg size .40m ↓ 1.64m x 129m	L R	Trail u	- Bank Armoring on trail side - Several Areas Fenced, planted.
84. 67	36 37	24m	Enhancement Rock Weir size of rock ~ .3 to .7m ↔ 6.0 m x 5m ↓	Instream	-	- not a obstruction to Fish passage.
85. 68	38 39	4m	BANK EROSION SLIDE / SLUMP ↑ 6m x ↔	R	-	Stable AT present time.
86. 69	40	4m	Culvert Discharge DIA = 30cm OUTFALL = .62cm	L	trail	- H <sub>2</sub> O = 7°C - Flowing clear

\* Adjacent Land Use Codes: Undisturbed, Agriculture, Forestry, Residential, Parks, Commercial, Industrial

General comments on this section of the stream

# Stream Reconnaissance Field Data Sheet

## Feature Information cont

## Module 1

Feature #	Photo #	m upstream of last feature	Feature Description and Size (see App. 3)	Stream-bank (L or R)	Adjacent Land Use *	Actions/Comments/ Water Quality Concerns
87. 70	43	9m	Enhancement. Rock Weir Height Avg = 40cm width = 4.5m Length = 7.0m	L Instream R	P U	Functioning + stable.
88. 72	44 45	14m	Enhancement. Concrete Weir Height = 40cm width = 6.4m length = 5.8m	Instream	—	NOT A PASSAGE Barrier AT present flow - KNOTCHED FOR LOW FLOWS
89. 73	46	5m	BANK EROSION SLUMPING ↓ 2.5m x 17m ←	R L	U trail	Armoring BANK Base required. - Stable AT LOW FLOWS.
90. 74	47 48	18m	Enhancement. Instream Rock placement; ↔ 5.3m x 7.5m ↓	L Instream R	Trail R	- passable - Rock size Avg. .5 to .8m
91. 75	49	26m	Enhancement Concrete WEIR ↓ 71cm x 5.5m ← plunge pool = 57cm	L instream R	Trail R	- WEIR KNOTCHED FOR LOW FLOWS Height = 50cm

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General comments on this section of the stream

# Stream Reconnaissance Field Data Sheet

## Feature Information con't

## Module 1

50m  
placement

Feature #	Photo #	m upstream of last feature	Feature Description and Size (see App. 3)	Stream-bank (L or R)	Adjacent Land Use *	Actions/Comments/ Water Quality Concerns
92. 77	-	11m	BANK Erosion Exposed Soil ↑ 1.5m x 24m	L	trail	Stable, but Armoring or Protection req'd
93. 76	50 51	16m	Discharge Pipe DIA = 30cm outfall = 9cm	L	trail	Flowing clear. H <sub>2</sub> O = 8°C
94. 76	51	0m	Discharge Pipe DIA = 20cm outfall = 60cm	L	trail	No Flow AND DRY INSIDE the Pipe.
95. 78	N/A	17m	Enhancement 5.5m ↔ x 3m ↓ Riprap size = .4 to .7m	Instream		- Rock Weir, Functioning.
96. /	52	7m	Artificial Modification BANK STABILITY ↓ 1.5m x 7m ↔	L	trail	Rip Rap size .4m to .6m Installed to Protect Bank AND trail.

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General comments on this section of the stream



Sect # 3.

# Stream Reconnaissance Field Data Sheet

## Feature Information con't

## Module 1

Feature #	Photo #	m upstream of last feature	Feature Description and Size (see App. 3)	Stream-bank (L or R)	Adjacent Land Use *	Actions/Comments/ Water Quality Concerns
97. 79	53 54	7m	Enhancement, Rock WEIR length = 5m width = 4.5m	Instream		Rip-Rap size = 4m to .75m
98 80	55	13m	Culvert Discharge Heavy Iron presence leeching into creek.	L	trail	- Functioning but 1/2 filled with Rock. <span style="float: right;">Pipe</span>
99 81	56	14m	- Discharge Pipe DIA = 30cm outfall = 52cm	R	R	- H <sub>2</sub> O = 8.5° * water quality?
100 82	57	6m	Enhancement OLD wooden WEIR 1.25m x 4.8m ↔ plunge pool = 25cm	Instream	-	- Located downstream side of stoney creek place Bridge crossing
101	58 59 60	4m	Stoney Creek PL Bridge Crossing " BENCHMARK "	R-L		- lacking Riparian Veg on R-L Bank under Bridge

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General comments on this section of the stream

SECT #3 - END PT.

# Stream Reconnaissance Field Data Sheet

## Feature Information con't

## Module 1

Feature #	Photo #	m upstream of last feature	Feature Description and Size (see App. 3)	Stream-bank (L or R)	Adjacent Land Use *	Actions/Comments/Water Quality Concerns
102	58 59	0m	Enhancement Rock WEIR ← 5.5m x 7m ↓	Instream	Road.	R-L Bank * lack stability AND Riparian Vegetation.
103	61 62 63	16m	END PT OF SECT # 3 AND Survey.			End 16m upstream of Bony Creek PL Bridge Crossing

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General comments on this section of the stream